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May 20, 1998

DERWENT-ACC-NO: 1998-263097

DERWENT-WEEK: 200242

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TITLE: Method of mounting part onto sheet metal - involves connecting part to sheet by deforming joint created via punch head on one side and die on other

INVENTOR: MUELLER, R

PATENT-ASSIGNEE:

ASSIGNEE

PROFIL VERBINDUNGSTECHNIK GMBH

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CODE

PROFN

PROFN

PRIORITY-DATA: 1996DE-1047831 (November 19, 1996), 1995DE-1030466 (August 18, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 842733 A2	May 20, 1998	G	018	B23P019/06
CN 1182653 A	May 27, 1998		000	B21K001/44
DE 19647831 A1	May 20, 1998		000	B21D039/00
CZ 9702737 A3	June 17, 1998		000	B21D047/04
CA 2214730 A	May 19, 1998		000	B21D053/88
JP 10213108 A	August 11, 1998		012	F16B004/00
KR 98041877 A	August 17, 1998		000	F16B035/00
MX 9706749 A1	May 1, 1998		000	F16B013/00
BR 9706842 A	October 17, 2000		000	B23P019/06
US 6146072 A	November 14, 2000		000	B23P011/00

DESIGNATED-STATES: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI

CITED-DOCUMENTS: No-SR. Pub

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 842733A2	September 17, 1997	1997EP-0116188	
CN 1182653A	September 30, 1997	1997CN-0119387	
DE 19647831A1	November 19, 1996	1996DE-1047831	
CZ 9702737A3	September 2, 1997	1997CZ-0002737	
CA 2214730A	September 5, 1997	1997CA-2214730	
JP 10213108A	September 10, 1997	1997JP-0244918	
KR 98041877A	September 8, 1997	1997KR-0046193	
MX 9706749A1	September 4, 1997	1997MX-0006749	
BR 9706842A	September 8, 1997	1997BR-0006842	
US 6146072A	August 16, 1996	1996US-0698870	CIP of
US 6146072A	September 4, 1997	1997US-0923214	

INT-CL (IPC): B21 D 39/00; B21 D 47/04; B21 D 53/88; B21 K 1/44; B23 P 9/04; B23 P 11/00;

B23 P 19/06; F16 B 4/00; F16 B 13/00; F16 B 19/00; F16 B 35/00; F16 B 35/06; F16 B 37/06;
F16 S 1/10

RELATED-ACC-NO: 1997-134007;1998-469318

ABSTRACTED-PUB-NO: EP 842733A
BASIC-ABSTRACT:

The method creates a hermetic seal between the part (10), which consists of a head (14) and a shaft (12), and the sheet metal. The part does not pierce the metal, but is fixed to it so that it can transmit axial force and preferably also torque.

The part is connected to the metal by a deforming joint created via a punch head on one side of the sheet metal to guide the part, and a deforming die on the other side of the sheet component.

ADVANTAGE - Creates a liquid and gas seal.
ABSTRACTED-PUB-NO:

US 6146072A
EQUIVALENT-ABSTRACTS:

The method creates a hermetic seal between the part (10), which consists of a head (14) and a shaft (12), and the sheet metal. The part does not pierce the metal, but is fixed to it so that it can transmit axial force and preferably also torque.

The part is connected to the metal by a deforming joint created via a punch head on one side of the sheet metal to guide the part, and a deforming die on the other side of the sheet component.

ADVANTAGE - Creates a liquid and gas seal.

CHOSEN-DRAWING: Dwg.1/17

TITLE-TERMS: METHOD MOUNT PART SHEET METAL CONNECT PART SHEET DEFORM JOINT PUNCH HEAD ONE
SIDE DIE

DERWENT-CLASS: P52 P56 Q61 Q68

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1998-207464